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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/644,456	10/644,456 08/20/2003		Laura J. Ball	SP01-192A	5937	
22928	7590	03/28/2005		EXAMINER		
CORNIN SP-TI-3-1		PRPORATED	LOPEZ, CARLOS N			
CORNING, NY 14831				ART UNIT	PAPER NUMBER	
	·	,		1731		
				DATE MAILED: 03/28/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	80		
	Application No.	Applicant(s)	
	10/644,456	BALL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Carlos Lopez	1731	
The MAILING DATE of this communication ap		e correspondence ac	idress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply but by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fig. cause the application to become ABANDC	e timely filed days will be considered time rom the mailing date of this o	ly. ommunication.
Status			•
1) Responsive to communication(s) filed on 1/3/6	<u>05</u> .		
2a)⊠ This action is FINAL . 2b)☐ This	s action is non-final.		
3) Since this application is in condition for allowa			e merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-10,12,13 and 20-30</u> is/are pending	in the application.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-10,12,13 and 20-30</u> is/are rejected			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	e Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Off	ice Action or form P	10-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece tu (PCT Rule 17.2(a)).	cation No eived in this National	Stage
Attachment(s)	·		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Mai		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	T	al Patent Application (PT	O-152)

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fleming, Jr. et al (US 4,011,006) in view of Gouskov et al (US 6,253,580). Fleming discloses a method of making glass suitable for incorporation in devices such as lenses and optical transmission lines (Col.1, lines 10-13). Fleming's method, as best shown in figure 3, comprises passing silica powder into a plasma to thus produce and deposit silica particles onto a rotating horizontal depositing surface. Fleming is silent depositing and consolidating the particles at the same time. However, Gouskov teaches that depositing and consolidating the silica into one single step is cheaper than a multi-stage process that requires a separate deposition and consolidation steps (Col. 3 lines 15-17 and Col. 6, lines 61-65). Hence, at the time the invention was made it would have been obvious to a person of ordinary skill in the art to have deposited and consolidate the particles of Fleming at the same time as taught by Gouskov because its less expensive than a multi-stage process that requires separate deposition and consolidation steps.

In regards to the newly filed limitation of having the silica particles directed downwardly, figure 3 of Fleming explicitly discloses the powder being downwardly directed onto a substrate 40, the substrate being on table 42 (See Col. 5, lines 15-25).

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As for claim 2, Fleming's powder size ranges from mesh size 20 to 100, which corresponds to a particle size range of 149mm to 841 micrometers.

As for claims 3-4, Fleming adds a Germanium or Borate dopant (Col. 3, lines 52-54).

In regards to claims 5-6 and 9, while Fleming adds germanium and borate dopants, it is well known in the art as shown by US 654168 that dopants such as F2, CF4, and SiF4 are conventionally added to the silica for reducing optical damage to the glass caused by infrared light.

As for claim 10, silica glass having no OH content is desired in order to avoid interference of the transmitted light passing there through. Thus would be obvious to a person of ordinary skill in the art to have made the silica preform in an enclosure having a low water content.

Claims 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fleming, Jr. et al (US 4,011,006) in view of Gouskov et al (US 6,253,580) as applied to claim 1 above. Fleming and Gouskov use synthetic silica quartz but are silent disclosing using natural silica quartz. However, Examiner takes official notice that using synthetic silica glass would have been obvious to a person of ordinary skill in the art as shown by Drouart et al (US 6,477,864) which teaches that either natural or synthetic silica may be used as silica sources for the production of glass performs.

Claims 20-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fleming, Jr. et al (US 4,011,006) in view of Gouskov et al (US 6,253,580) in view of Examiner's Official Notice. Fleming discloses a method of making glass suitable for

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incorporation in devices such as lenses and optical transmission lines (Col.1, lines 10-13). Fleming's method, as best shown in figure 3, comprises passing silica powder into a plasma to thus produce and deposit silica particles onto a rotating horizontal depositing surface. Fleming is silent depositing and consolidating the particles at the same time. However, Gouskov teaches that depositing and consolidating the silica into one single step is cheaper than a multi-stage process that requires a separate deposition and consolidation steps (Col. 3 lines 15-17 and Col. 6, lines 61-65). Hence, at the time the invention was made it would have been obvious to a person of ordinary skill in the art to have deposited and consolidate the particles of Fleming at the same time as taught by Gouskov because its less expensive than a multi-stage process that requires separate deposition and consolidation steps. Additionally, in view of Fleming, which teaches that the disclosed method can be used to make glass for incorporation within devices, it would have thus been obvious to a person of ordinary skill in the art, at the time the invention was made, to have used Fleming's silica glass as an optical device such as a photomask. The forming of a photomask would thus require cutting the glass from the preform into blanks and finishing them. Examiner takes official notice that said claimed steps for forming a photomask are well known in the art as shown by US 2002/0090518A1 and/or US 6,541,168 as required steps for forming a photomask.

In regards to claims 24-25 and 28, while Fleming adds germanium and borate dopants, it is well known in the art as shown by US 654168 that dopants such as F2, CF4, and SiF4 are conventionally added to the silica for reducing optical damage to the glass caused by infrared light.

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As for claim 29, silica glass having no OH content is desired in order to avoid interference of the transmitted light passing there through. Thus would be obvious to a person of ordinary skill in the art to have made the silica preform in an enclosure having a low water content.

Response to Arguments

Applicant's arguments filed 1/3/05 have been fully considered but they are not persuasive.

Applicant argues that Fleming and Gouskov are not concerned with fused silica for use in photolithography rather they are both concerned with optical fibers. It is reminded to applicant that the amendment filed on 1/3/05 amends claim 1 to be directed to a generic method of making fused silica, not fused silica for use in photolithography. It is also noted to Applicant that Fleming's teachings are directed to the production of high quality optical glass suitable for incorporation in devices such as lenses, which would encompass lenses used photolithography. Additionally, the Gouskov reference has been cited to show knowledge in the art that the claimed step of deposition and consolidating at the same time is well known in the art and would have been obvious to a person of ordinary skill in the art to modify the Fleming reference in order to reduce cost.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (such as planar horizontal surfaces as argued in page 6, lines 10-16 and in page 7 lin 9th to last lines) are not recited in the rejected claim(s). Although the claims are

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interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Additionally, the alleged capabilities that the claimed invention provides as noted in page 6, lines 19ff and page 8, lines 1-4 of applicant's response, are not recited in the rejected claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lopez whose telephone number is 571.272.1193. The examiner can normally be reached on Mon.-Fri. 8am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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STEVEN P. GRIFFIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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